Theme 1: The role of ICT in our lives

Lesson 1: The Explorer
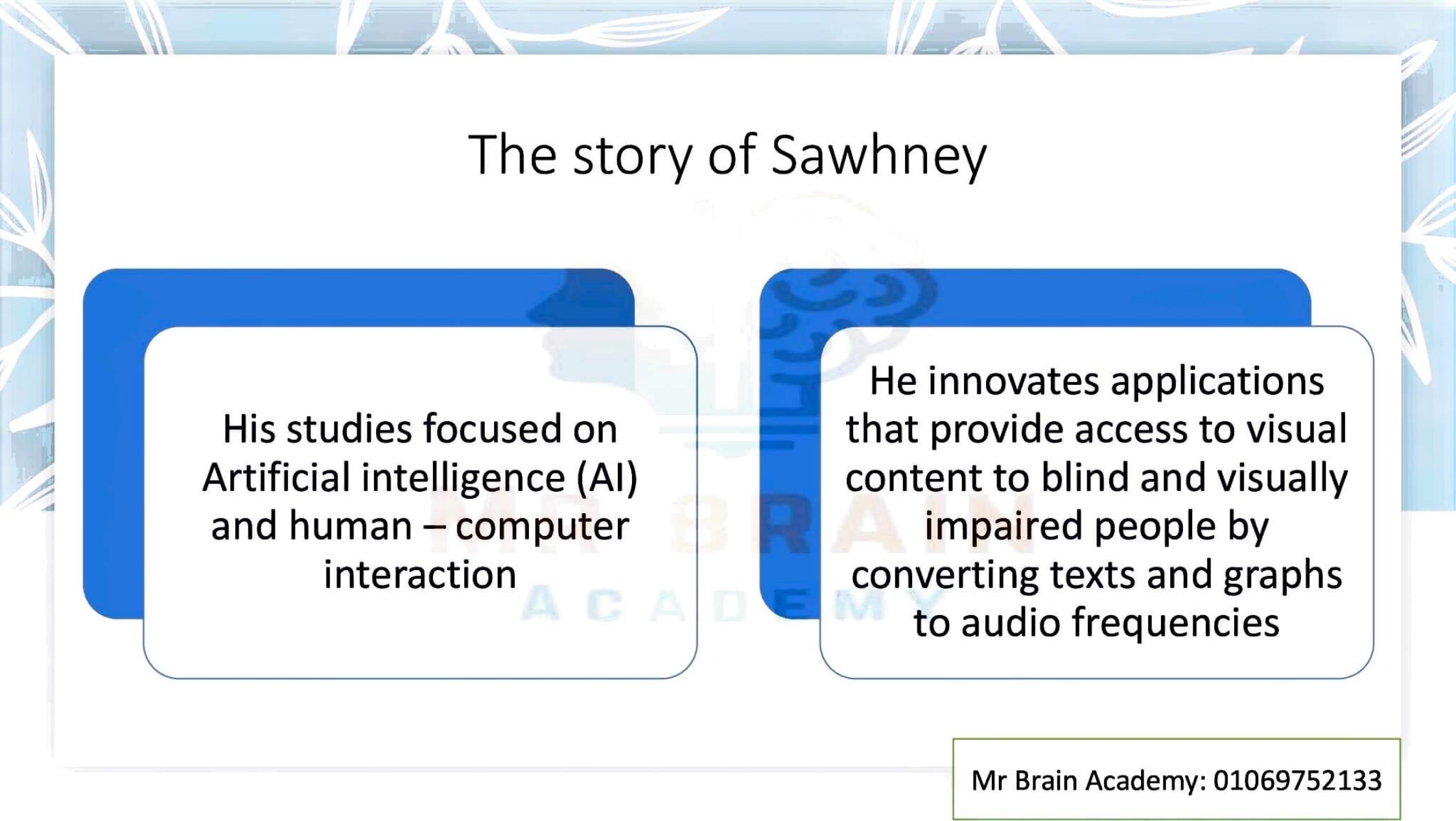
Mr Brain Academy
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Kartik Sawhney

- National Geographic explorer

- Computer expert who used the technology to empower people of determination

- He earned his bachelor and master degree in computer science at Stanford University, California in the US (United States)

- Kartik received a Queen's Young Leaders Award

- Kartik was honored with several national and international awards including the Queen's Young Leaders Award and the United nations (UN) Young Leaders

- Kartik is from the people of determination (blind)

- Kartik impacted over 12000 people of determination worldwide

The story of Sawhney

His studies focused on Artificial intelligence (AI) and human – computer interaction

He innovates applications that provide access to visual content to blind and visually impaired people by converting texts and graphs to audio frequencies

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Istemai.com (cofounded by Kartik)

It is a platform that provide a software that converts the digital texts into a format that can be used easily by blind and visually impaired people

Its importance

1-The person who cannot read the text can upload the text on istemai website
2-The software converts the file to a word document
3-After few minutes, the person receives the converted document and listen to the text using screen reader which automatically reads the text loud

i-stem includes mentorships and Employment opportunities for people of determination (with disabilities)

- i-stem is supported by some organization such as UNICEF, Microsoft, National Geographic Society

- They provide the support to people of determination by helping them in (writing CV, preparing for interviews and career related questions)

- People of determination can upload their resume (CV) to the company sites and the human resources (HR) department will review the resumes for consideration

Egypt supports people of determination

To help visually impaired people : In Taha Hussein Library in Bibliotheca Alexandria has scanners with special software that converts printed texts to audio

Egypt offer scholarships and special chances to gifted people such as the miracle child Rania Saleh who is a clever computer programmer with down syndrome

Note: Rania Saleh was the first person with down syndrome who got the International computer driving license (ICDL) certificate in 2014

In 2022, Egypt launched initiatives to provide job opportunities and trainings for more than 20 million Egyptian from the people of determination

In addition, the ministry of manpower is developing programs that educate and train people of determination for the job market

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There are several ways to create a website

You can use platforms that build the website for you with just a few choices on the layout, color and content

For expert programmers such as Kartik Sawhney, creating a website using coding language allows him to make a website look a specific way and do exactly what he wants

Types of websites

Static webpages	Dynamic webpages
Don't need to be updated frequently	Needs changes and updates all the time
People who wants to write about the history of a place and show photos of it	Websites that show results according to each user's history
HTML: used for static websites	Java script, PHP, Python, C++, C#: used for dynamic websites

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HTML

A programing language used in creating static web pages that allows web developers to arrange many parts in their website using less codes

Its Advantages
1. The best programming language for static webpages
2. Work on all browsers
3. Easy for use

Notes

Dynamic programing languages (interactive) allows you to track customer's orders and favorite products or update the search results in the browser

Kartik Sawhney uses Python, C++ and C# languages